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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/544,143	07/29/2005	Karl Thiele	US020474US	4967
24737 7590 03/03/2009 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			ROZANSKI, MICHAEL T	
BRIARCLIFF I	BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER
			3768	
			MAIL DATE	DELIVERY MODE
			03/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/544,143	THIELE, KARL			
Office Action Summary	Examiner	Art Unit			
	MICHAEL T. ROZANSKI	3768			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IT Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 29 of 2a) This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination 10) The drawing(s) filed on 29 July 2005 is/are: a Applicant may not request that any objection to the	awn from consideration. for election requirement. ner. a) ☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. Sec	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E		, ,			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/29/05.	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

-In regard to claims 2 and 9, it is unclear what 'ultrasound information' refers to (i.e. raw data, the up sampled data, 3D data, 2D data, etc). Similarly in claims 5, 6, 13, 16, and 19, the 'ultrasound image information' or 'ultrasound information' is not specified.

-In regard to claims 5 and 12, it is unclear what is meant by stating that the "image information is at least one of two dimensional solids and three dimensional volumes." Does this refer to the objects that are imaged?

-Claim 16 is unclear because the claim states that the probe creates 3D information and also that the processor converts some other type of information to 3D information, as well.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 8-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. In addition to inquiry of whether a claimed method falls within a judicial exception, Supreme Court precedent (Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780,787-88 (1876).) and recent Federal Circuit decisions, require that a claim drawn to a process must (1) be tied to another statutory class (such as a particular apparatus) or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. If neither of these requirements is met by the claim, the method is not a patent eligible process under 35 U.S.C. 101 and is improperly directed to nonstatutory subject matter. Thus, to qualify as a 35 U.S.C. 101 statutory process, the claim should positively recite the other statutory class (the thing or product) to which it is tied or positively recite the subject matter that is being transformed. As claims 8-14 are not tied to another statutory class, nor do they positively recite subject matter being transformed, they are improperly directed to nonstatutory subject matter.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Mochizuki (US 6,263,093).

Mochizuki discloses a method and apparatus for 3D ultrasound image processing including a 3D ultrasound probe 10 for acquiring 3D data and display 40 for displaying data. The reception signal (echo data) in the form of two-dimensional data is read out from line memories 22A, 22B and are then input into a line interpolation section 23, which produces one or more of 3D interpolation data. By performing this line interpolation, the number of the ultrasound beams can be increased such that it is possible to improve the resolution of the 3D image (col 9, lines 27-44; see Figure 1). The interpolated 2D data produced in interpolation section 23 is then stored in memories 24A, 24B, afterwhich frame interpolation section 30 interpolates between the adjacent frames. 3D memory 32 is then used to store data output from the frame interpolation section 30 (col 10, lines 35-48).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T. ROZANSKI whose telephone number is (571)272-1648. The examiner can normally be reached on Monday - Friday, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eric F Winakur/ Primary Examiner, Art Unit 3768

MR